

FIG. 1

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211
<Customer_A> 212
 <Offer> 213
 <Items> 214
 <service_item> 215
 <Item_number> 1 </Item_number>
 <Computer_Programming> 216 217
 <Wireless_Device_Programming>
 <Protocol> WAP </Protocol>
 <Protocol> 802.11 </Protocol>
 218 ~ <Device> Palm </Device>
 <Device> Handspring </Device>
 <Device> Ericsson </Device>
 </Wireless_Device_Programming>
 219 ~ <Skill_level> High </Skill_level>
 220 ~ <Number_of_Hours> 40.00 </Number_of_Hours>
 <Monetary_value Currency="USD" Priority=2>
 221 / 2000 </Monetary_value>
 </Computer_Programming>
 </service_item>
 </Items>
 </Offer>

FIG. 2A

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227
223
<Need>
<Items> 224
<Choices> 225
<Choice Priority = 1>
1 and 4
</Choice>
<Choice Priority = 2> 226
(2 and 3 and 4)
</Choice>
</Choices> 227 228
<Product_item Item_number = 1 Priority = 2>
<Furniture>
229 <Dining_Table>
<Manufacturer> "E Allen" </Manufacturer>
<Number_of_Chairs> 6 </Number_of_Chairs>
<Model> Durango </Model>
<Color> Cherry </Color>
231 <Monetary_value Currency="USD" Priority=3>
1800 </Monetary_value>
</Dining_Table>
</Furniture>
</Product_item>

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202

237 238

```
<Product_item Item_number = 2 Priority = 2>
  <Furniture>
    239   <Dining_Table>
      <Manufacturer> LackStore </Manufacturer>
      <Number_of_Chairs> 6 </Number_of_Chairs>
      <Model> Corona </Model>
      <Color> Brown </Color>
    241   <Monetary_value Currency="USD" Priority=1>
          1500 </Monetary_value>
    </Dining_Table>
  </Furniture>
</Product_item>           247 248
<Service_item Item_number = 3 Priority = 3>
  246   <Landscaping>
    249   <Service_Offered> Lawn-Mowing </Service_Offered>
    <Number_of_times> 10 </Number_of_times>
    <Monetary_value Currency="USD" Priority=1>
      251   300 </Monetary_value>
    </Landscaping>
  </Service_item>
```

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```
<Product_item Item_number = 4 Priority = 1>
  <Merchandise>           \ 257   \ 258
  256 / <Sports_cards>
        259   <Sport> Baseball </Sport>
        <Player> "Babe Ruth" </Player>
        261 <Monetary_value Currency="USD" Priority=3>
              200 </Monetary_value>
              </Sports_cards>
            </Merchandise>
          </Product_item>
        </items>
      </Need>
    </Customer_A>
```

FIG. 2D

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<Need>

<Choice Number = 1 Priority = MOST_DESIRABLE>

<Product_item Priority = DESIRABLE>

/ <Furniture>

267

<Dining_Table> - 268

<Manufacturer> "E Allen" </Manufacturer>

<Number_of_Chairs> 6 </Number_of_Chairs>

<Model> Durango </Model>

<Color> Cherry </Color>

269 - <Monetary_value Currency="USD" Priority=3>

1800 </Monetary_value>

</Dining_Table>

</Furniture>

</Product_item>

<Product_item Priority = MUST_HAVE>

/ <Merchandise>

278

<Sports_cards>

<Sport> Baseball </Sport>

<Player> "Babe Ruth" </Player>

279 - <Monetary_value Currency="USD" Priority=3>

200 </Monetary_value>

</Sports_cards>

</Merchandise>

</Product_item>

</Choice>

FIG. 2 E

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281 282

```
<Choice Number = 2 Priority = LEAST_DESIRABLE>
<Product_item Priority = DESIRABLE>
  <Furniture>
    <Dining_Table> 283
      <Manufacturer> LackStore </Manufacturer>
      <Number_of_Chairs> 6 </Number_of_Chairs>
      <Model> Corona </Model>
      <Color> Brown </Color>
      284 - <Monetary_value Currency="USD" Priority=1>
             1500 </Monetary_value>
    </Dining_Table>
  </Furniture>
</Product_item>
```

Fig. 2F

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<Service_item Priority = LEAST_DESIRABLE>
288 <Landscaping>
 <Service_Offered> Lawn-Mowing </Service_Offered>
 <Number_of_times> 10 </Number_of_times>
 289 - <Monetary_value Currency="USD" Priority=1>
 300 </Monetary_value>
 </Landscaping>
 </Service_item>
 <Product_item Priority = MUST_HAVE>
 290 <Merchandise>
 <Sports_cards>
 <Sport> Baseball </Sport>
 <Player> "Babe Ruth" </Player>
 291 - <Monetary_value Currency="USD" Priority=3>
 200 </Monetary_value>
 </Sports_cards>
 </Merchandise>
 </Product_item>
 </Choice>
</Need>

F16. 2G

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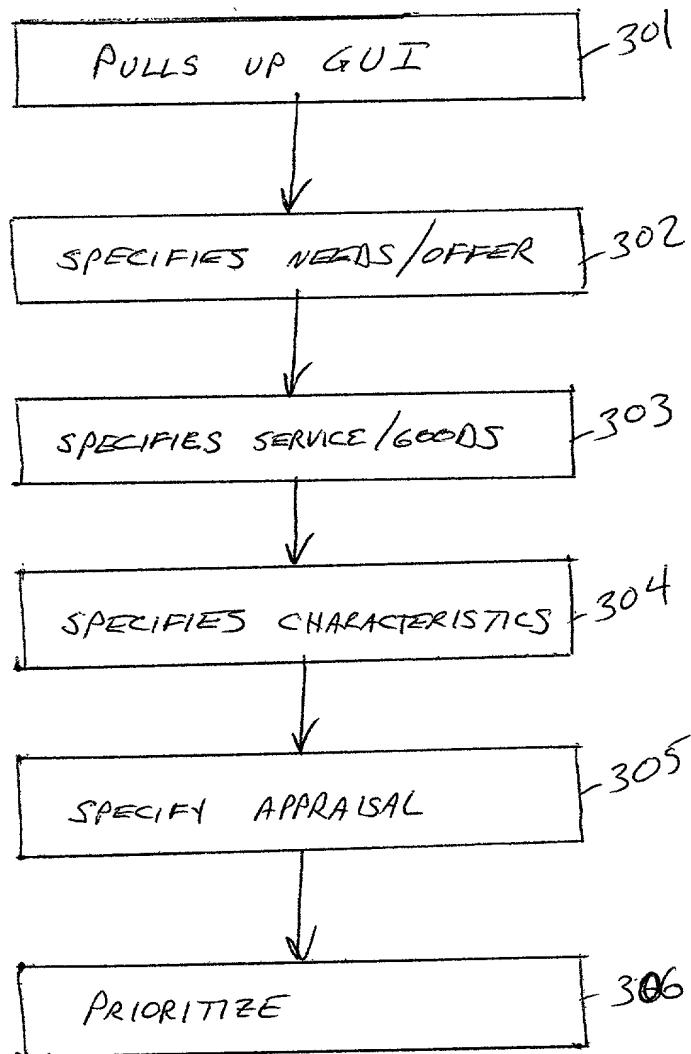


FIG. 3

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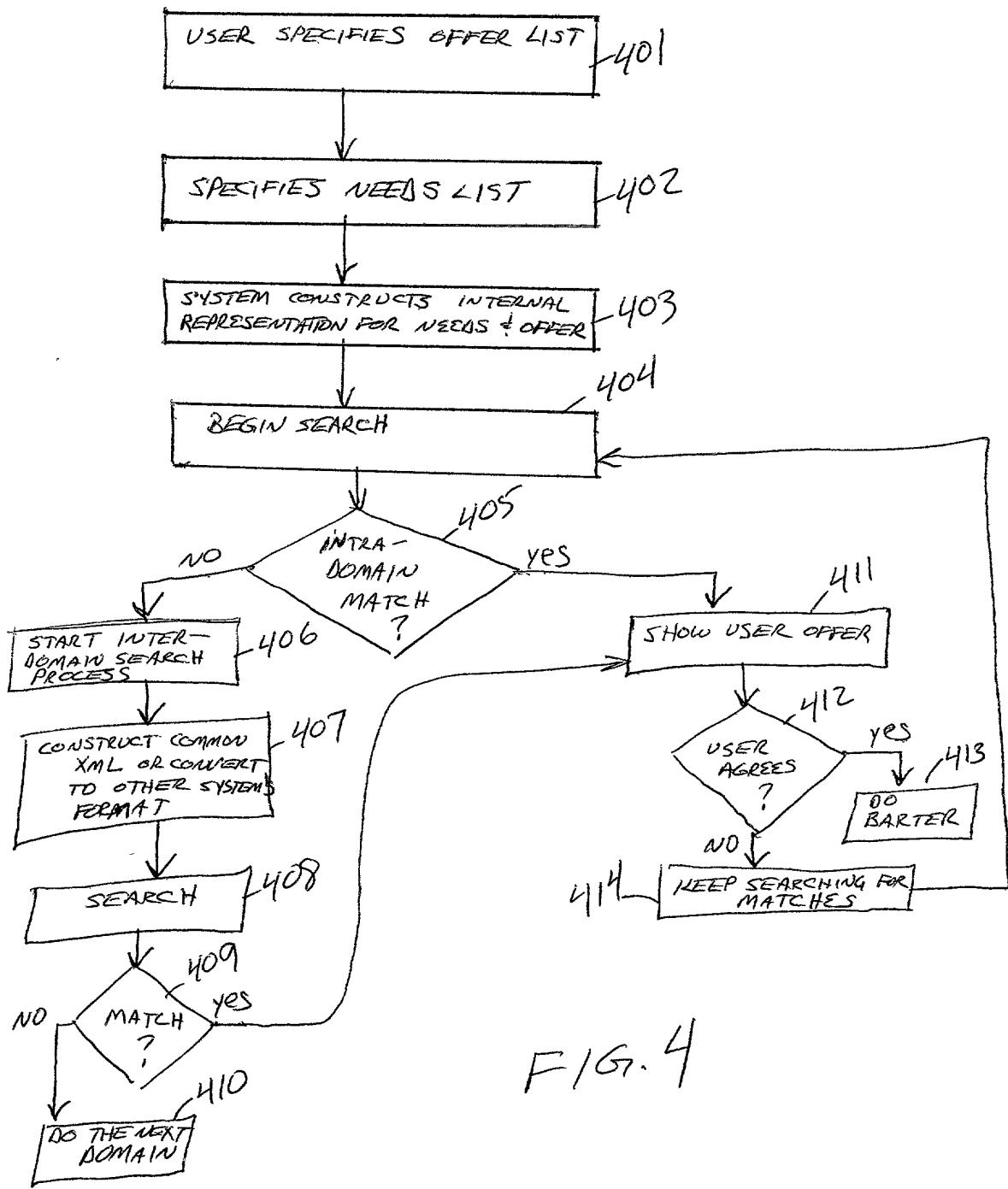


FIG. 4

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